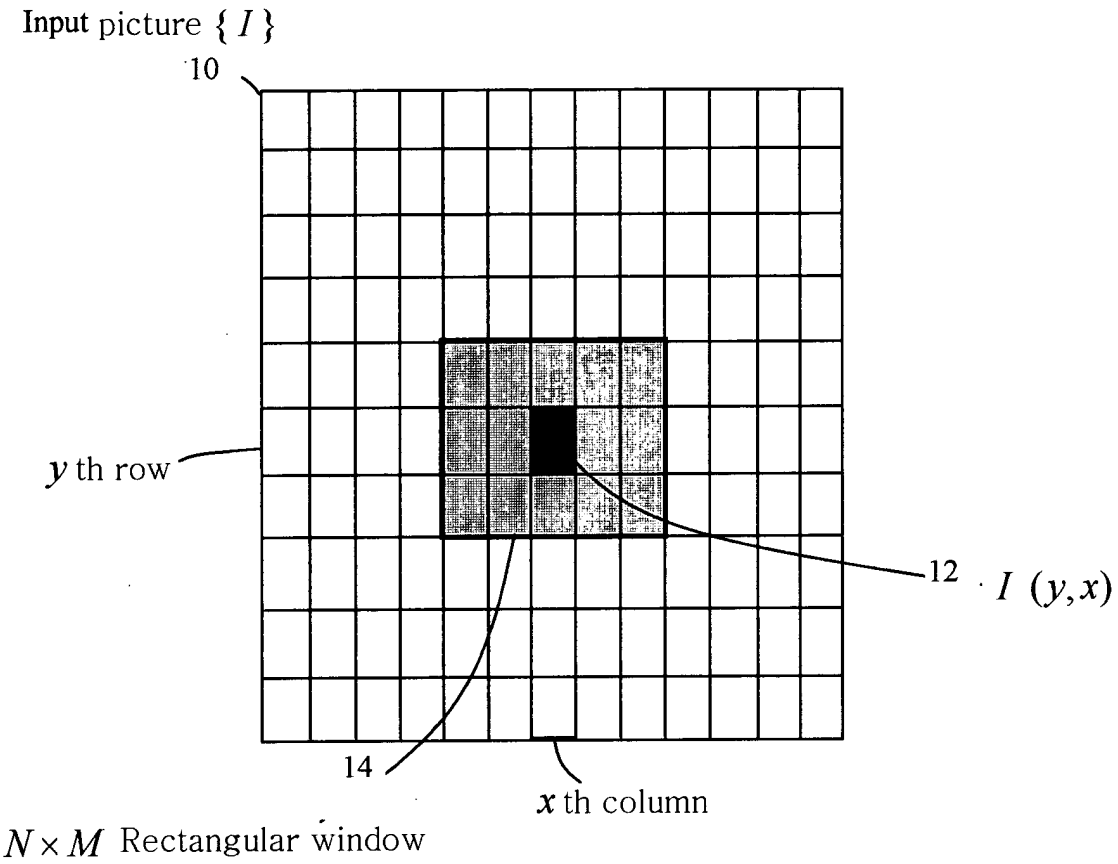

Input picture { I }
10
y th row
12
I (y,x)
14
x th column
N × M Rectangular window

FIG 1

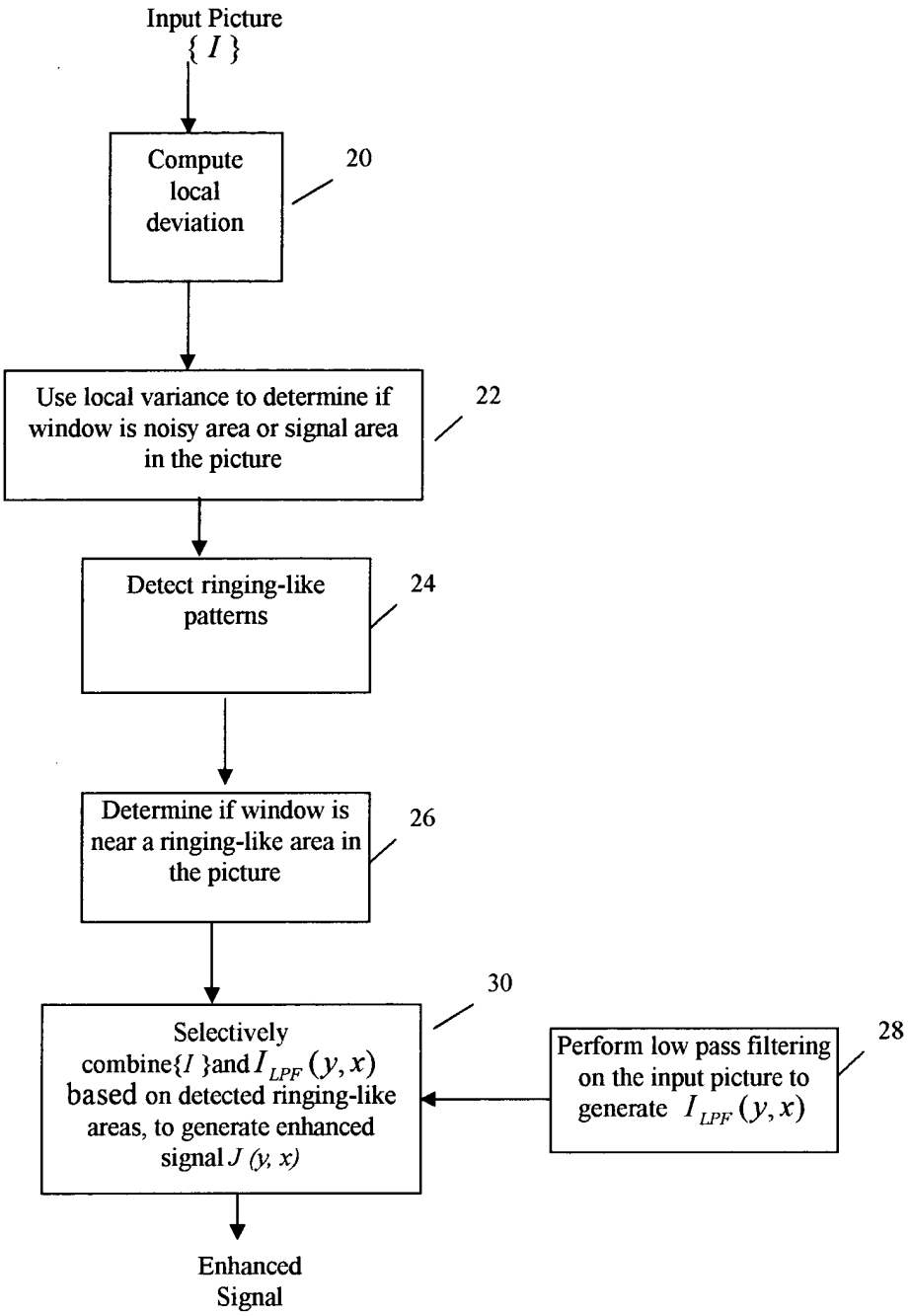

Input Picture
{ I }
Compute local deviation
20
Use local variance to determine if window is noisy area or signal area in the picture
22
Detect ringing-like patterns
24
Determine if window is near a ringing-like area in the picture
26
30
Selectively combine{I }and $I_{LPF}(y,x)$ based on detected ringing-like areas, to generate enhanced signal J (y, x)
Perform low pass filtering on the input picture to generate $I_{LPF}(y,x)$
28
Enhanced Signal

FIG. 2

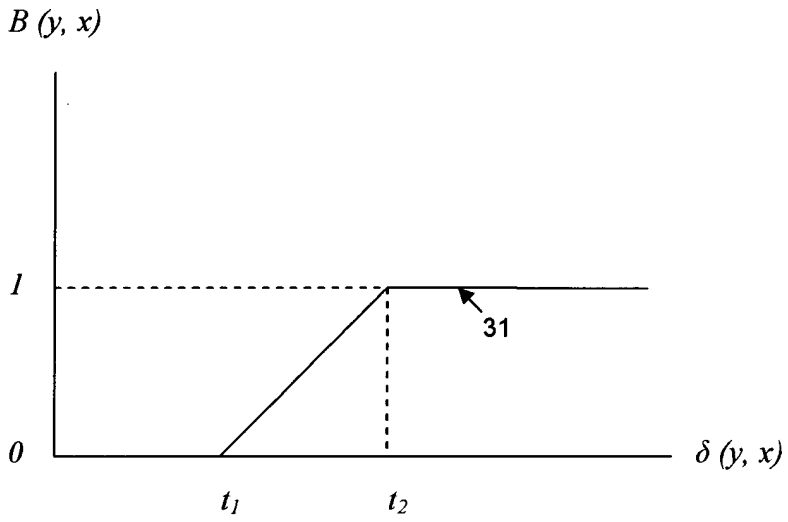
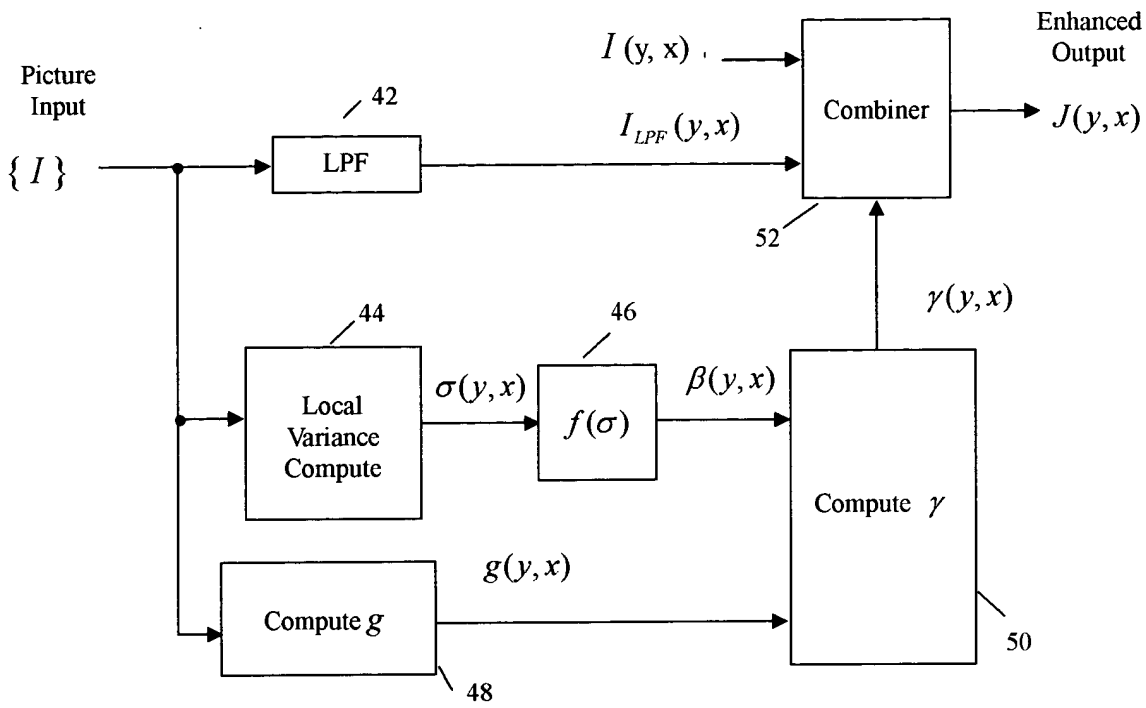


FIG. 3


Picture Input
{ I }
42
LPF
I (y, x)
$I_{LPF}(y,x)$
Combiner
Enhanced Output
$J(y,x)$
52
$\gamma(y,x)$
44
Local Variance Compute
$\sigma(y,x)$
46
$f(\sigma)$
$\beta(y,x)$
Compute γ
50
$g(y,x)$
Compute g
48

40

FIG. 4